

From: "Coffey, Scott" <CoffeySE@cdmsmith.com>  
To: "Jones, Jennifer M." <JonesJM@cdmsmith.com>  
"Sheldrake, Sean" <sheldrake.sean@epa.gov>  
"Zhen, Davis" <Zhen.Davis@epa.gov>  
"Gustavson, Karl" <Gustavson.Karl@epa.gov>  
CC: "Greazel, Andrew" <GreazelAD@cdmsmith.com>  
younghs@cdmsmith.com  
Date: 4/2/2018 1:28:23 PM  
Subject: RE: Fish Tracking FSP RLSO/Clean

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Thank you Jennifer.

I've included Karl, Sean and Davis in this email thread so they are aware of your findings stated below.

You are correct – we are still waiting to receive their Task Specific HASP addendum for the fish tracking effort and they must provide this 5 days in advance of their planned mobilization, so (based on my current understanding) their scheduled date for initiating fish tracking on April 5<sup>th</sup> (Thursday) is not feasible under the current rules.

Scott

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From: Jones, Jennifer M.  
Sent: Monday, April 02, 2018 12:35 PM  
To: Coffey, Scott <CoffeySE@cdmsmith.com>  
Cc: Greazel, Andrew <GreazelAD@cdmsmith.com>; Young, Howard S. <younghs@cdmsmith.com>  
Subject: RE: Fish Tracking FSP RLSO/Clean

Hi Scott,

They made the discussed revisions consistent with their responses to the comments. The SOPs, equipment list, and field forms have been revised adequately. They did not provide the HASP addendum task hazard analysis - are we still waiting on that?

Regarding the primary issue – timing/spawning, they did not add any specific discussion. However, the following text and footnote were added:

#### Contingency Fish Tagging Event

The sample size of 40 tagged fish was selected assuming that some loss, due to mortality **or leaving the study area**, would occur over the year-long study duration. As few as 20 to 30 tagged fish are expected to provide the data needed to characterize SMB movement **and home range**.<sup>[1]</sup> The data from the June and July monthly monitoring and the 3-month data download in early August will be evaluated to determine the total number of tagged fish residing in the 10-mile study area and the number of detections of each tagged fish. A second tagging event will be performed in conjunction with the late August/early September 2018 SMB tissue sampling if the total number of tagged fish that have been detected at least monthly falls below 20. A minimum of 10 and up to 20 additional SMB will be tagged and tracked for the remainder of the study period. Consistent with the initial tagging event, the additional SMB will be targeted within the high resolution array areas, supplemented with fish collection in RM 5 to RM 9 as needed.

[1] A total of 23 SMB were tagged during the 2000-2003 radio-tracking study of the lower Willamette River from RM 0 to Willamette Falls (Pribyl et al. 2004). A total of 11 SMB were tagged in 2000, nine were tagged in 2002, and three were tagged in 2003. **The results of this study were used by EPA to determine the 1-mile exposure areas for SMB in the Portland Harbor RI/FS.**

I highlighted the text that seems to be related to the idea that fish may be moving during spawning, and the home range determination. I had in my notes that they would add contingency language to the FSP. While the revised text is not clearly addressing the spawning issue, or discussing any uncertainty around it, it does express the potential for

a second tagging event to be needed if some leave the study area. I assume Karl will weigh in on this to decide if this is adequate.

Thanks,  
Jennifer

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From: Coffey, Scott  
Sent: Friday, March 30, 2018 2:42 PM  
To: Jones, Jennifer M. <[JonesJM@cdmsmith.com](mailto:JonesJM@cdmsmith.com)>  
Cc: Greazel, Andrew <[GreazelAD@cdmsmith.com](mailto:GreazelAD@cdmsmith.com)>; Young, Howard S. <[younghs@cdmsmith.com](mailto:younghs@cdmsmith.com)>  
Subject: FW: Fish Tracking FSP RLSO/Clean

Hi Jennifer.

Please review this final RLSO of the Pre-RD Group's Fish Tracking FSP against our latest Response Tracking Table, using our notes from the meeting with the Pre-RD Group on this topic March 23<sup>rd</sup>.

I realize you're booked on other things, so If you can't get to it next week, let me know and I'll find someone else.

Thanks.

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From: Tyrrell, Ken [<mailto:ken.tyrrell@aecom.com>]  
Sent: Friday, March 30, 2018 12:56 PM  
To: Zhen, Davis <[Zhen.Davis@epa.gov](mailto:Zhen.Davis@epa.gov)>  
Cc: Coffey, Scott <[CoffeySE@cdmsmith.com](mailto:CoffeySE@cdmsmith.com)>; Young, Howard S. <[younghs@cdmsmith.com](mailto:younghs@cdmsmith.com)>  
Subject: Fish Tracking FSP RLSO/Clean

Davis,

On behalf of the Pre-RD AOC Group we are submitting the fish tracking FSP. The attached files include the RLSO and "Clean" versions of the FSP.

We will begin receiving the equipment on Monday, April 16 (or thereabouts) and would like to begin placing the equipment in the field by April 23 (or thereabouts). We would appreciate having your approval of the FSP before April 16.

Please let me know if you have any questions or comments.

**Ken Tyrrell**  
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